

User Manual

VX5400

Ver. 0.1
2007. 02. 28

Part 15.21 statement

" Change or Modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment. "

Part 15.105 statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. if this equipment does cause harmful interference or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

LIMITED WARRANTY STATEMENT

1. WHAT THIS WARRANTY COVERS:

LG offers you a limited warranty that the enclosed subscriber unit and its enclosed accessories will be free from defects in material and workmanship, according to the following terms and conditions:

- (1) The limited warranty for the product extends for ONE (1) year beginning on the date of purchase of the product.
- (2) The limited warranty extends on to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser/end user.
- (3) This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the U.S., including Alaska, Hawaii, U.S. Territories and Canada.
- (4) The external housing and cosmetic parts shall not be covered under these limited warranty terms.
- (5) Upon request from LG, the consumer must provide information to reasonably prove the date of purchase.
- (6) The customer shall bear the cost of shipping the product to the Customer Service Department of LG. LG shall bear the cost of shipping the product back to the consumer after the completion of service under this limited warranty.

2. WHAT THIS WARRANTY DOES NOT COVER:

- (1) Defects or damages resulting from use of the product in other than its normal and customary manner.
- (2) Defects or damages from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage caused by shipping blown fuses spills of food or liquid.
- (3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.
- (4) That the Customer Service Department at LG was not notified by consumer of the alleged defect or malfunction of the product during the applicable limited warranty period.
- (5) Products which have had the serial number removed or made illegible.
- (6) The limited warranty is in lieu of all other warranties, express or implied either in fact or by operations law, statutory or otherwise, including, but limited to any implied warranty of marketability or fitness for a particular use.
- (7) Damage resulting from use of non-LG approved accessories.
- (8) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
- (9) Products operated outside published maximum ratings.
- 3
- (10) Products used or obtained in a rental program.
- (11) Consumables (such as fuses).

3. STATE LAW RIGHTS:

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG INFOCOMM INC. SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY APPLICABLE TO THIS PRODUCT. Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts; so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

4. HOW TO GET WARRANTY SERVICE:

To obtain warranty service, please call the following web address:
www.lgeservice.com

For Your Safety

Important Information

This user guide contains important information on the use and operation of this phone. Please read all the information carefully for optimal performance and to prevent any damage to or misuse of the phone. Any changes or modifications not expressly approved in this user guide could void your warranty for this equipment.

Before You Start

Safety Instructions

WARNING! To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as the bathroom, swimming pool, etc.

Always store your phone away from heat. Never store your phone in settings that may expose it to temperatures less than 32°F or greater than 104°F, such as outside during extreme weather conditions or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage and/or catastrophic failure.

Be careful when using your phone near other electronic devices. RF emissions from your mobile phone may affect nearby in adequately shielded electronic equipment. You should consult with manufacturers of any personal medical devices such as pacemakers and hearing aides to determine if they are susceptible to interference from your mobile phone.

Turn off your phone in a medical facility or at a gas station. Never place your phone in a microwave oven as this will cause the battery to explode.

IMPORTANT! Please read the TIA SAFETY INFORMATION on page 78 before using your phone.

Safety Information

Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this user guide.

- ▶ Never use an unapproved battery since this could damage the phone and/or battery and could cause the battery to explode.
- ▶ Never place your phone in a microwave oven as it will cause the battery to explode.
- ▶ Do not dispose of your battery by fire or with hazardous or flammable materials.
- ▶ Make sure that no sharp-edged items come into contact with the battery. There is a risk of this causing a fire.
- ▶ Store the battery in a place out of reach of children.
- ▶ Be careful that children do not swallow any parts such as rubber plugs (earphone, connection parts of the phone, etc.). This could cause asphyxiation or suffocation.

- ▶ Unplug the power cord and charger during lightning storms to avoid electric shock or fire.
- ▶ When riding in a car, do not leave your phone or set up the hands-free kit near to the air bag. If wireless equipment is improperly installed and the air bag is activated, you may be seriously injured.
- ▶ Do not use a hand-held phone while driving.
- ▶ Do not use the phone in areas where its use is prohibited. (For example: aircraft).
- ▶ Do not expose the battery charger or adapter to direct sunlight or use it in places with high humidity, such as a bathroom.
- ▶ Never store your phone in temperatures less than- 4°F or greater than 122°F.
- ▶ Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. There is a risk of this causing a fire.
- ▶ Do not drop, strike, or shake your phone severely. Such actions may harm the internal circuit boards of the phone.
- ▶ Do not use your phone in high explosive areas as the phone may generate sparks.
- ▶ Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause a fire or electric shock.
- ▶ Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause fire or electric shock.
- ▶ Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.
- ▶ Do not disassemble the phone.
- ▶ Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- ▶ Only use the batteries, antennas, and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.
- ▶ Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.
- ▶ Do not hold or let the antenna come in contact with your body during a call.
- ▶ An emergency call can be made only within a service area. For an emergency call, make sure that you are within a service area and that the phone is turned on.

FCC RF Exposure Information

WARNING! Read this information before operating the phone.

In August 1996, the Federal Communications (FCC) of the United States, with its action in Report and Order FCC 96-326, adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies.

The design of this phone complies with the FCC guidelines and these international standards.

CAUTION

Use only the supplied and approved antenna. Use of unauthorized antennas or modifications could impair call quality, damage the phone, void your warranty and/or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with skin, a minor burn may result. Contact your local dealer for a replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 0.79 inches (2cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.79 inches (2cm) must be maintained between the user's body and the back of the phone. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Body-worn accessories that cannot maintain 0.79 inches (2cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

Vehicle Mounted External Antenna (optional, if available)

A minimum separation distance of 8 inches (20cm) must be maintained between the user/bystander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements. For more information about RF exposure, visit the FCC website at www.fcc.gov

FCC Part 15 Class B Compliance

This device and its accessories comply with part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that may cause undesired operation.

Cautions for Battery

- ▶ Do not disassemble.
- ▶ Do not short-circuit.
- ▶ Do not expose to high temperature: 60°C (140°F).]
- ▶ Do not incinerate.

Battery Disposal

- ▶ Please dispose of your battery properly or bring to your local wireless carrier for recycling.
- ▶ Do not dispose in fire or with hazardous or flammable materials.

Adapter (Charger) Cautions

- ▶ Using the wrong battery charger could damage your phone and void your warranty.
- ▶ The adapter or battery charger is intended for indoor use only.

Do not expose the adapter or battery charger to direct sunlight or use it in places with high humidity, such as the bathroom.

SUBJECT

The phone VX5400 has been designed to operate on the latest digital mobile communication technology, Code Division Multiple Access (CDMA). The phone VX5400 support fully Multimedia - Dual color LCDs, 74poly Audio, 0.3M pixels Digital Camera, Photo album, etc. This phone is the one of tri band Tri mode - 800Mhz CDMA, 1900Mhz PCS, 1500Mhz GPS.

CDMA Standard	Designator	Description
Basic air interface	TIA/EIA-95A TSB-74 ANSI J-STD-008 TIA/EIA-IS2000	CDMA Dual-Mode Air Interface 14.4kbps radio link protocol and inter-band operations IS-95 adapted for PCS frequency band CDMA2000 1xRTT Air Interface
Network	TIA/EIA/IS-634 TIA/EIA/IS/651 TIA/EIA/IS-41-C TIA/EIA/IS-124	MAS-BS PCSC-RS Intersystem operations Nom-signaling data comm.
Service	TIA/EIA/IS-96-B TIA/EIA/IS-99 TIA/EIA/IS-637 TIA/EIA/IS-657 IS-801	Speech CODEC Assign data and fax Short message service Packet data Position Determination Service (gpsOne)
Performance	TIA/EIA/IS-97 TIA/EIA/IS-98 ANSI J-STD-018 ANSI J-STD-019 TIA/EIA/IS-125	Cellular base station Cellular mobile station PCS personal station PCS base station Speech CODEC

* TSB -74: Protocol between an IS-95A system and ANSI J-STD-008

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Getting Started

Unlocking Your Phone

If you received your VX5400 in the mail, you may need to unlock it before making calls.

1. Press the END/PWR Switch for 2~3 seconds.
2. Press soft key **Unlock**.
3. Enter your four-digit lock code. For security purposes, the code will not be visible as you type.

Note: If you can't recall your lock code, try using the last four digits of your Social Security number, the last four digits of your Phone Number or 0000.

View of Phone

1. **END/PWR Switch:** Lets you power the phone on or off.
2. **Antenna:** Intenna provides optimum reception for 800 MHz & 1900 MHz frequencies.
3. **Power On Indicator:** Illuminates red when the phone powers on or when you receive incoming calls. Flashes red when you have messages or scheduled alarms.
4. **Headset Jack:** Provides connection for an optional headset.
5. **Volume Control Keys:** Adjust the Ring Volume in the Main Menu or the Voice Volume during a call. The keys also scroll through months in the Calendar or pages in the MiniBrowser.
6. **Mouse Key:** Allows quick and easy scrolling through the menus.
7. **OK:** Lets you place a call, receive a call, end a call or select menu options.
8. **CLR:** Lets you clear an entry or back-up in the menu.

9. **Folder** : Lets you answer or end calls.

Installing and Removing the Battery

To install the battery, insert the bottom of the battery into the opening on the back of the phone. Then, push the battery down until the latch clicks.

To remove the battery, press down on the latch and remove the battery from the phone.

Turning Your Phone On and Off

To turn your phone on, move the End/PWR Switch for 2~3 seconds to the ON position. Your phone performs a short self-test before letting you know it is operational.

If your phone does not turn on, make sure the battery is installed correctly and is adequately charged or has external power (via the AC Adapter, Cigarette Lighter Adapter or Hands-Free Car Kit).

To turn your phone off, move the On/Off Switch to the OFF position.

Main Menu

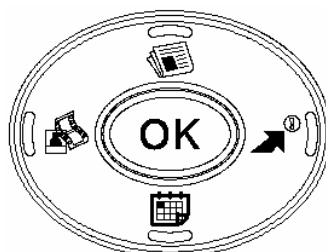
When your phone acquires Service, the Greeting (a banner of text), the current time and date and the Main Menu are displayed. If you are in authorized provider's service area, you are ready to send and receive calls.

Power Save Mode

When the phone is in an area without service for 15 minutes, it stops searching for service and enters into the power Save Mode. When your phone activates this feature, **Power Save** is displayed on your screen. The phone automatically checks for service periodically or you can check manually by pressing any key.

Menu Navigation

The Mouse Key lets you scroll circularly through menus quickly and easily.



As you navigate through a menu, the options are highlighted (**Highlighted Test Example**). Select an option by highlighting it and pressing . The scroll bar at the right of the menu keeps track of your position in the menu at all times.

For example, if you want to view your last incoming call:

1. From the Main Menu, select **RECENT CALLS** and press 2.

2. Press the Mouse Key down to highlight and press .

If you have received any calls, they are displayed on the screen.

Entering Characters Using the Keypad(**Incoming**)

To enter a letter, punctuation or number when creating Phone Book or Scheduler entries, press the corresponding key until the desired character appears. By default, the first letter of a word is capitalized and following letters are lowercase. Characters in the following order:

	1 . ? , ' & . @ () / ~		P Q R S 7 p q r s
	A B C 2 a b c 2		T U V 8 t u v 8
	D E F 3 d e f 3		W X Y Z 9 w x y z 9
	G H I 4 g h i 4		Next 0
	J K L 5 j k l 5		Shift
	M N O 6 m n o 6		Space

After a character is entered, the cursor automatically advances to the next space after two seconds. You can also advance the cursor by pressing  or entering a character not on the same key.

If you make a mistake, press  to move the cursor left or [CLR] to erase a character. To clear the entire entry, press and hold [CLR] for two seconds.

Display Icons

Display icons are the symbols your phone uses to communicate important information. They are as follows:

ICON	DESCRIPTION
	RSSI(Digital)
	RSSI(1X)
	Battery
	No Service
	Data Session
	SSL
	TTY
	In use
	Roaming
	Location On
	Voice Privacy
	Voice Privacy
	Vibrate Mode On
	Meesgage
	Alarm

Antenna

The antenna on your VX5400 provides maximum reception by extending of retracting it.

!!! WARNING – CHOKING HAZARD – ANTENNA MAY BECOME DISLODGED

Attempting to remove or repeated twisting of the antenna will loosen the materials securing it into antenna. Once the antenna is loosened or removed, only an authorized service provider Representative can restore the antenna's original integrity. Do not attempt to remove or twist the antenna.

Signal Strength

The quality of each call you make or receive depends on the signal strength on your area. The number of bars in the Signal Strength icon informs you of the current strength. The more bars, the stronger the signal.

Battery Capacity

Your VX5400 is equipped with a **Lithium Ion** battery. It allows you to recharge your battery before it is fully drained. The battery provides approximately 180 minutes of continuous digital talk time or approximately 110 hours of continuous digital standby time.

Note: Long backlight settings affect the battery's talk and standby times.

When the battery reaches 5% of its capacity, the battery icon blinks. When there is about one minute of talk time left, the phone sounds an audible alert every 30 seconds and then powers down.

If the battery's charge is completely run down, it takes 2 to 3 hours to fully recharge. It is not necessary to let the battery completely run down before recharging.

To charge your batteries, use only approved charging accessories.

Using the AC Adapter

To charge the battery, plug the AC Adapter into a standard wall outlet and connect it to the phone via the I/O Connector on the bottom of the phone. Alternatively, you can place the phone in the charging cradle provided with your phone and connect the AC Adapter to the back of the cradle.

The battery Charge Status icon flashes during charging. When the battery is fully charged, the battery icon stops flashing.

Using Your Phone

Placing a Call

When the phone is turned on, check the Signal Strength icon to see if you are in a Service Area or authorized PCS CDMA provider's service area.

1. Flip open the phone.
2. Enter the phone number and press [SEND].
 **Tip!** When dialing long distance, it is not necessary to dial a "1" before the area code.
3. When you are finished with your call and press [END] or close the flip.

Roaming With Your Phone

Your Phone is you can use it to make and receive calls in many places.

Setting Your Phone's Mode

Your Phone allows you to control your ability to roam. (See "Set Mode")

Calling Experience

When you use your phone on other PCS CDMA networks, your calling experience and call quality will be quite similar to what you experience when making calls within the Network. Although certain calling

features may not be available, your phone calls are still private and secure.

Correcting Dialing Mistakes

To delete one digit at a time, press . To delete all digits, press and hold .

Redialing Last Outgoing Number

Press and hold [SEND] for 2 seconds.

Dialing Options (phone book – Not Functioning)

When you enter numbers in the Main Menu, dialing options are displayed. To display a Phone Book entry, enter its entry number.

To select an option, highlight it and press [OK]

- 2- Second pause – Inserts a two-second pause.
- Wait – Inserts a ‘wait’ pause. This waits until you press the ‘Release’ soft-key.
- New TXT Message – Composes a new text message to the number.
- New Picture Message

In Call Options

During a call, your phone displays menu options in addition to the Main Menu.

To select an option, Highlight it and press [OK].

- Messaging – Moves to the ‘MESSAGING’ menu.
- Contacts – Moves to the ‘CONTACT LIST’ menu
- Recent Calls – Moves to the ‘RECENT CALLS (All Calls)’ menu

- Privacy On – Turns on voice privacy if available.
- Record – Records current voice call.
- Notepad – Moves to the ‘NOTE PAD’ menu.
- Main Menu – Moves to the main menu.
- DTMF tones – Lets you set how to send DTMF tones.

Incoming Call Notification

Depending on your settings, your phone notifies you of incoming calls in the following ways:

- The phone rings or vibrates
- The backlight illuminates
- The screen displays an incoming call message
- The caller’s name is displayed if the phone number is in your Phone Book
- Quiet – Mutes the ringer.
- Ignore – Ignore the call.

Note: You can also mute the ringer by pressing the up or down Volume Control key.

Answering Calls

To answer incoming calls, flip open or press [SEND].

Displaying Your Phone Number

To display your phone number:

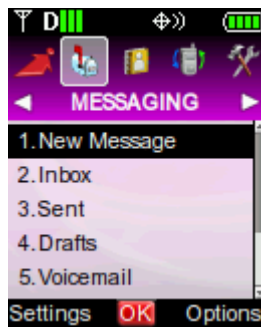
1. From the Main Menu, select SETTING & TOOLS.
2. And press 9 – 1. (Phone Info – My Number)

Setting the Ring Volume to Vibrate

To set the phone to Vibrate Mode, press the down Volume Control key until Ring Volume Vibrate is displayed. The phone will vibrate and – Vibrate On- is displayed above the Main Menu.

To set the phone to Vibrate Mode using the Main Menu, see “Adjusting the Volume” .

Getting the Most From Service



<SMS-Pic1>

Retrieving Page/Text Messages

To retrieve page/text messages:

1. From the Messaging
2. Highlight Inbox and press [OK].

Highlight the message you want to display and press [OK].

To select an option, highlight it and press [OK].

Text Message options:

- Reply

- Forward
- Lock
- Add To Contacts
- Erase Inbox
- Message Info.

Erasing All Page/Text Messages

1. From the **Messages** Menu, Press [Options]
2. Highlight **Erase All** and press [OK].
3. Highlight **Yes** and press [OK].

Page/Text Message Storage

Your VX5400 can store up to 100 page/text messages. When the message memory is 100% full, a warning message prompts you to erase messages to obtain more memory space.

Roaming on to Other Service Providers

Roaming occurs when you are in an area serviced by another authorized service provider. When this situation occurs, the **R** icon and Digital Roam of Analog Roam are displayed. If there is no service available, the  icon is displayed.

(Call History- not functioning)

Page/Text Messages

For information on page/text messages, see “Retrieving Page/Text Messages” .

Sounds

Adjusting the Volume

1. From the SETTINGS & TOOLS , highlight **Sounds Settings** and press [OK].

2. Highlight Master Volume and press [OK].

 **Tip!** You can use the Volume Control keys to adjust the Ring Volume in the Main Menu or the Voice Volume during a call.

3. Highlight Volume5, Volume4, Volume3, Volume2, Volume1, Vibrate Only, Alarm Only , or All Sounds Off and press [OK].

Note: When the phone is in Vibrate OMode and attached to an accessory (Desktop Charger, Hands-Free Car Kit, etc.), it uses the Standard Ring Type to alert you of incoming calls, alarms or messages.

Selecting Ring Types for Voice Calls

To Select a Ring Type for Voice Calls:

1. From the Main Menu, highlight SETTINGS & TOOLS/Sounds Settings and press [OK].
2. Highlight Call Sounds and press [OK].
3. Highlight Call Ringtone and press [OK].
4. Highlight a Ring Type and press [OK]. You will hear a preview of the Ring Type when you highlight it.

 **Tip!** You can also assign different Ring Types to individual Phone Book entries.

Selecting Ring Types for Messages

To select a Ring Type for Messages:

1. From the SETTINGS & TOOLS menu, highlight Sounds Settings and press [OK].
2. Highlight Alert Sounds and press [OK].
3. Highlight TEXT Message , Picture-Message, Voicemail and press [OK].

4. Highlight a Ring Type and press [OK].

Service Alert Notification

To enable or disable alert sounds:

1. From the SETTINGS & TOOLS menu, highlight Sounds Settings and press [OK].
2. Highlight Service Alerts and press [OK].
3. Select an alert by highlighting it and pressing [OK].
 - ERI Sounds.
 - Minute Beep – Your phone beeps once a minute when you are on a call. (The beep is not audible to the other party.)
 - Call Connect
4. Highlight ON or Off and press [OK].

Display

For information on changing Backlight or Banner, see **Handy Tips**.

Display Menu

Security

Accessing the Security Menu

You must enter your lock code to view the Security menu. If you forget your lock code, try using the last four digits of your Social Security number, the last four digits of your Phone Number or 0000.

Security Menu

To access the Security menu:

1. From the **SETTING & TOOLS**, select **Phone Settings** and press **Security**.
2. Enter your lock code.

Locking Your Phone

When your phone is locked, you can only make calls to 911, Customer Care and Special Numbers or receive incoming calls.

To lock your phone:

1. From the Security menu, highlight **Lock Mode** and press [OK].
2. Highlight **Device**, and press [OK]. If you select On Power Up, the phone will be locked each time it power up.
3. Highlight **Unlock Now**, **Lock** or **On Power up** and press [OK]. If you select On Power Up, the phone will be locked each time it power up.

Unlocking Your Phone

1. Highlight **Lock Mode** and press [OK].
2. Highlight **Device**, and press [OK].
3. Highlight **Unlock Now**, and press [OK].

Changing the Lock Code

To change your lock code:

1. From the Security menu, highlight **Edit Code** and press [OK].

2. Enter your new lock code.

Reenter your new lock code.

Selecting Answer Option

You can select different answering options.

To answer calls automatically or by pressing any key:

1. From the **SETTING & TOOLS**, select **Call Settings** and press **Answer Options**.

To select an option, highlight it and press [OK].

- Flip Open/Send Only – You can answer incoming calls by opening the flip or by pressing Send key
- Any Key - You can answer calls by pressing any key (not including the [CLR] key, Mouse Key or Volume Control keys).
- Send Only – You can answer incoming calls by pressing only [SEND] key.
- Auto Answer - Your phone answers incoming calls automatically after five seconds.

2. Highlight **On** and press [OK].

FCC Hearing-Aid Compatibility (HAC) Regulations for Wireless Devices

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with “normal usage” while using their hearing aid with the particular wireless phone. “Normal usage” in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

**For information about hearing aids and
digital wireless phones**

FCC Hearing Aid Compatibility and Volume Control

<http://www.fcc.gov/cgb/dra/hearing.html>

Gallaudet University, RERC

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